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10+ Years of Advancing LED Horticulture

Valoya has engineered premium LED horticulture fixtures for Crop Science **since 2009** with 8 out of 10 of the world's most notable companies relying on our hardware. We are proud to bring our years of experience into applied crop science, launching our full line of Crop Production Solutions.

While continuing our research-driven approach, we forge ahead in optimizing Controlled Environment Agriculture systems from growth chambers to commercial greenhouses. From algae to evergreens to cannabis, we have a practical and precise instrument for the cultivation of any member of the plant kingdom.



As our customers, your lighting needs are our lighting goals. Our years of crop science experience are applied at scale for crop production success.

- The Valoya Team

	Top Light	Multi Tier Racking	Modular Low Wattage	Specialty Low Wattage	HID
	RX-Series	RF-Series	BX120	L-Series, Clone LED18	CMH, HPS
Greenhouse	\checkmark				
Indoor	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Multi Tier High PPFD		\checkmark	\checkmark		
Vertical Farm Low PPFD				\checkmark	
Propagation				\checkmark	

RX-Series



Designed as a replacement for HID lighting, the RX-series is a high power, dimmable LED luminaire with a high IP rating (IP65 - wet location). The robust all aluminium build, passive cooling and tempered glass cover ensure a long lifetime in the most demanding of environments.

- Typical Applications High intensity lighting, HID replacement
- **PPFD** 100 ~ 1000 µmol m² s^{2*}



Accessories

Standard hooks and mating part to the cable connector included. Optional hooks available to order.

Technical Specification	RX325	RX600							
Spectrum	Solray385 SolrayX S2	Solray385 SolrayX							
Power Consumption	330 W	653 W 658 W							
Voltage Input	220 - 480) VAC							
Light Output (PPF)* up to	870 µmol/s 900 µmol/s up to 1000 µmol/s	1717 µmol/s 1750 µmol/s							
Efficacy	2.6 μmol/J 2.7 μmol/J up to 3.0 μmol/J	2.62 µmol/J 2.66 µmol/J							
Weight, Luminaire and LED Driver	13.1 lb (5.8 kg)	25.6 lb (11.6 kg)							
Dimensions, Luminaire (L x W x H)	13.7" x 9.2" x 6.9" (347 x 233 x 176 mm)	13.7" x 15.7" x 6.9" (347 x 400 x 176 mm)							
Cables	11.8" mains to LED driver, 52" luminaire	e to LED driver, 11.8" dimming cable							
Plug Type	Open end (bare leads)/NEMA plugs								
Dimming	0-10V, PWM, Dim to Off								
L90 Q90	50,000	0+ h.							
Certifications / Approvals	DLC listed, cETLus mar	ked, RoHS compliant							
Max. Ambient Operating Temperature	40° (с							
Cooling	Pass	ive							
Ingress Protection Rating	IP65	5							
Warranty	5 year limited warranty								
*Spectrum Dependent									





RF-Series

The Racking Fixture combines the evolution of form factor for vertical cultivation with Valoya's historic build quality. We utilize **tempered glass lenses** to protect vital chip components while maintaining the light output and quality your crop needs for consistent and predictable results.

Typical Applications

Mid-to-high intensity lighting, grow room

• **PPFD** 100 ~ 1200+ µmol m² s^{2*}

Accessories

Standard hooks included. Optional hooks, mains input connector and blank cap available to order.



Technical Specification*	RF700-6	RF600-6	RF400-6	RF300-6	RF350-3	RF300-3						
Spectrum			Solra Solr									
Power Consumption	714 W 686 W	656 W 651 W	451 W 450 W	335 W	358W 342 W	325 W 322 W						
Voltage Input	220 - 4	80 VAC	120 - 277 VAC		220 - 480 VAC							
Light Output (PPF)* up to	1790 µmol/s 1825 µmol/s	1738 µmol/s 1757 µmol/s	1189 µmol/s 1188 µmol/s	921 µmol/s 913 µmol/s	947 µmol/s 901 µmol/s	860 µmol/s 862 µmol/s						
Efficacy (ePAR 280-800 nm)	2.64 µmol/J 2.7 µmol/J	2.65 µmol/J 2.7 µmol/J	2.64 µmol/J	2.75 µmol/J 2.72 µmol/J	2.65 µmol/J 2.63 µmol/J	2.65 µmol/J 2.68 µmol/J						
Weight, Luminaire and LED Driver	25.6 lb (11.6 kg) 13.1 lb (5.8 kg											
Dimensions Luminaire (L x W x H)	46.8" x 44.4" x 3.3"46.8" x 20.5" x 3.3"(1190 x 1130 x 85 mm)(1190 x 565 x 85 mm)											
Cables	11.8" mains to LED driver, 26" luminaire to LED driver, 11.8" dimming cable											
Plug Type			Open end (bare lea	ads) or NEMA plug	S							
Dimming			0-10V, PWM	, Dim to Off								
L90 Q90			50,00)0+ h.								
Certifications / Approvals		D	LC listed, cETLus ma	arked, RoHS comp	liant							
Max. Atmbient Operating Temperature			40'	°C								
Cooling			Pas	sive								
Ingress Protection Rating			IP(55								
Warranty			5 year limite	ed warranty								

*Spectrum Dependent

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L-Series

With absolute light uniformity and no heat produced even when placed right above the canopy, the L-Series is ideal for vertical farming, tissue culture, growth chambers, grafting and growing cannabis in the vegetative stage. The T8 form factor allows the L-series products to be installed in fluorescent tube fixtures without modification (fixtures with magnetic ballast). By using optional end-caps the IP rating can go as high as IP65.

Typical Applications

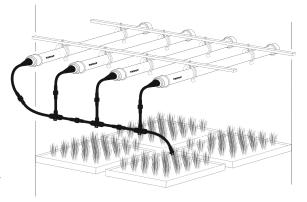
Mid-to-high intensity lighting, with high light uniformity even with low ceiling-to-canopy heights. Ideal for single tier applications in greenhouses, and indoor grow rooms.

• PPFD

100 ~ 1200+ µmol m² s²*

Accessories

Standard hooks included. Optional hooks, mains input connector and blank cap available to order.



Technical Specification*	L18	L28	L35						
Spectrum		AP67							
Power Consumption	18 W	28 W	35 W						
Voltage Input		120 - 240, 277 VAC							
Light Output (PPF)* up to		20 - 250 µmol/s*							
Efficacy		Up to 2.1 µmol/J*							
Weight, Luminaire and LED Driver	0.79 lb	(0.36 kg)	0.97 lb (0.44 kg)						
Dimensions, Luminaire (L x W x H)	47.2" / Ø 1.02 (1198 mm / Ø 26)	59" / Ø 1.02 (1498 mm / Ø 26)						
Cables	0.3 m (11.8") mains to LED driver, 1.3 m (52") luminaire to LED driver, 0.3 m (11.8") dimming cable								
Plug Type	Open end (bare leads)/NEMA plugs								
Dimming		No							
L90 Q90		36,000+ h.							
Certifications / Approvals	Teste	CE marked, RoHS complia d and certified to UL & CSA s							
Max. Atmbient Operating Temperature		40° C							
Cooling		Passive							
Ingress Protection Rating		IP65							
Warranty		5 year limited warranty							
*Spectrum Dependent									





BX-Series

High power, modular, dimmable LED bars with a high IP rating (IP67 – wet location). BX are slim, robust, humidity and impact resistant fixtures for research and cultivation. LED chips are protected by a tempered glass cover which is durable and safe to clean. The fixture is passively cooled and designed to have a smooth surface without fins, fans and deep ridges, preventing the buildup of debris.

Typical applications

Low-to-mid intensity lighting, growth rooms, multilayer

• PPFD

200 ~ 1200 µmol m² s²*

Accessories

Standard hooks and LED driver with mating part to the cable connector included. Optional hooks available to order.







Optional

Technical Specification	BX120
Spectrum	AP67 Solray385 SolrayX
Power Consumption	130 W
Voltage Input	220 - 480 VAC
Light Output (PPF)* up to	up to 400 µmol/s*
Efficacy	up to 3.0 µmol/J*
Weight, Luminaire and LED Driver	9.0 lb (4.1 kg)
Dimensions, Luminaire (L x W x H)	46.3" x 2.9" x 2.3" (1176 x 73.5 x 58 mm)
Cables	0.3 m (11.8") mains to LED driver, 1.3 m (52") luminaire to LED driver, 0.3 m (11.8") dimming cable
Plug Type	Open end (bare leads)/NEMA plugs
Dimming	0-10V, PWM, Dim to Off
L90 Q90	50,000+ h.
Certifications / Approvals	DLC listed, cETLus marked, RoHS compliant
Max. Ambient Operating Temperature	40° C
Cooling	Passive
Ingress Protection Rating	IP67
Warranty	5 year limited warranty

*Spectrum Dependent

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CLONE LED18

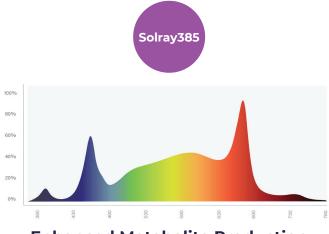
Provides the perfect light spectrum for optimal plant growth and development during the cloning stage, resulting in faster and healthier growth. Designed with precision and consistency in mind.

100% Typical Applications Relative intensity Cloning, Tissue Culture 80% 60% • PPFD 40% 36 µmol **m² s²** 20% 0% 400 500 600 700 800 Wavelength (nm)

Spectrum900KPower Consumption20 WVoltage Input10-277 VACLight Output (PPF)*40 µmol/sEfricacy20 µmol/sPrieght, Luminaire and LED Driver0.84 lb (0.38 kg)Chales1.3 m (52°) mains to fixturePing TypeShips with 20 V NEMA 5.15Edg054,000 + h.Cattlications / ApprovalsTested and test LED, Est and adsAmine Operating Temperature35° C	Technical Specification*	CLONE LED18
Voltage InputI10-277 VACLight Output (PPF)*40 µmol/sEfficacy2.0 µmol/JWeight, Luminaire and LED Driver0.84 lb (0.38 kg)Dimensions, Luminaire (L x D)44.1* x 1* x 1.4* (1120 mm x 26 mm x 35 mm)Cables1.3 m (52**) mains to fixturePlug TypeShips with 120 V NEMA 5-15Light Opportant54,000+ h.Certifications / ApprovalsTested and certified to ETL, CE, standards	Spectrum	9000K
Light Output (PPF)*40 μmol/sEfficacy2.0 μmol/JWeight, Luminaire and LED Driver0.84 lb (0.38 kg)Dimensions, Luminaire (L x D)44.1" x 1.4" (1120 mm x 26 mm x 35 mm)Cables1.3 m (52") mains to fixturePlug TypeShips with 120 V NEMA 5-15L90 29054,000+ h.Certifications / ApprovalsTested and certified to ETL, CE, standards	Power Consumption	20 W
up to 10 μmo/s Efficacy 2.0 μmo//s Weight, Luminaire and LED Driver 0.84 lb (0.38 kg) Dimensions, Luminaire (L x D) 44.1" x 1.4" (1120 mm x 26 mm x 35 mm) Cables 1.3 m (52") mains to fixture Plug Type Ships with 120 V NEMA 5-15 L90 54,000 + h. Certifications / Approvals Tested and certified to ETL, CE, standards	Voltage Input	110-277 VAC
Weight, Luminaire and LED Driver0.84 lb (0.38 kg)Dimensions, Luminaire (L x D)44.1" x 1" x 1.4" (1120 mm x 26 mm x 35 mm)Cables1.3 m (52") mains to fixturePlug TypeShips with 120 V NEMA 5-15Q9054,000+ h.Certifications / ApprovalsTested and certified to ETL, CE, standards		40 µmol/s
Dimensions, Luminaire (L x D) $44.1^{"} \times 1.4^{"}$ (1120 mm x 26 mm x 35 mm)Cables1.3 m (52") mains to fixturePlug TypeShips with 120 V NEMA 5-15L90 Q9054,000+ h.Certifications / ApprovalsTested and certified to ETL, CE, standards	Efficacy	2.0 µmol/J
Cables1.3 m (52") mains to fixturePlug TypeShips with 120 V NEMA 5-15L90 Q9054,000+ h.Certifications / ApprovalsTested and certified to ETL, CE, standards	Weight, Luminaire and LED Driver	0.84 lb (0.38 kg)
Plug Type Ships with 120 V NEMA 5-15 L90 Q90 54,000+ h. Certifications/Approvals Tested and certified to ETL, CE, standards	Dimensions, Luminaire (L x D)	44.1" x 1" x 1.4" (1120 mm x 26 mm x 35 mm)
L90 54,000+ h. Q90 Stand certified to ETL, CE, standards	Cables	1.3 m (52") mains to fixture
Q90 54,000+ n. Certifications / Approvals Tested and certified to ETL, CE, standards	Plug Type	Ships with 120 V NEMA 5-15
		54,000+ h.
Ambient Operating Temperature 35° C	Certifications / Approvals	Tested and certified to ETL, CE, standards
	Ambient Operating Temperature	35° C
Cooling Passive	Cooling	Passive
Ingress Protection Rating IP65	Ingress Protection Rating	IP65
Warranty 5 year limited warranty	Warranty	5 year limited warranty

Spectrum Dependent

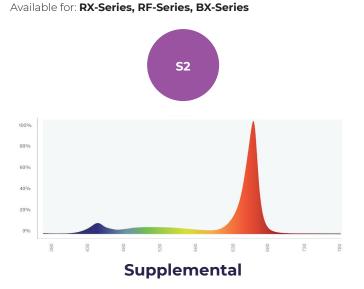
Tailored Solutions for Your Systems



Enhanced Metabolite Production

Solray385® offers optimized spectrum for controlled environment agriculture and research throughout all growth stages. It provides a balanced range of wavelengths from UV to FR that is suitable for most plant species. Solray385 has been thoroughly tested and proven to be highly effective, serving as a sole source of light.

In addition, Solray385's unique characteristics allow plants to drive optimal phenotypical expression, resulting in the best possible plant growth. With Solray385, you can ensure that your plants receive the ideal light for optimal growth and development.



S2[®] spectrum is designed for supplemental lighting in greenhouses. It offers a complete light output across the PAR range (400-700nm) with extra energy in the red portion of the PAR range. Since it includes a generous amount of green light, so growers' eyes will not be strained like other "blurple" (blue and red only) lights. This is a critical point as it allows growers to properly see their plants when scouting for infestations, plant diseases, and nutritional issues.

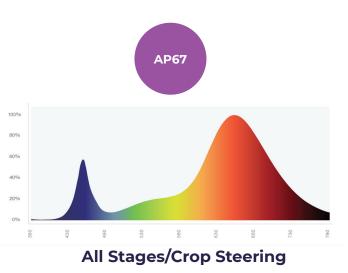
Available for: **RX-Series**



SolrayX[®] spectrum is based on what most would consider a traditional plant growth spectrum with some proprietary tweaks. It covers all the wavelengths in the PAR range (400-700nm). It's an excellent choice for growers looking to optimize their plant growth and improve their crop yields. The SolrayX spectrum offers superior performance and efficiency, making it an ideal choice for both indoor and greenhouse applications.

SolrayX is optimized for CAPEX and longevity while retaining high visibility for scouting and grower environmental comfort.

Available for: RX-Series, RF-Series, BX-Series



AP67° spectrum is Valoya's patented traditional spectrum. It was originally designed to achieve robust vegetative growth but is still being proven to work well in all stages. It is being deployed extensively for tissue culture applications along with cropscience breeding programs around the world. One of its key highlights is that it increases overall biomass due to its ability to stimulate leaf expansion.

An additional benefit is that it has the potential to accelerate plant maturity and ripening.

Available for: **BX-Series, L-Series, Light Recipe Formulations**

HPS/CMH

To give growers the freedom to choose what is best for their plants, Valoya now offers a range of HID luminaires in addition to its LED portfolio.



Model	Туре		Description
M1000L VAL-H1-1000CG2W-GIA(120- 240V) VAL-H1-1000TG2W- GIA(208- 480V)	A low profile, double ended HPS luminaire, designed for the flowering phase in lower ceiling height set-ups without compromising light uniformity.		1. Wattage: 1000W Input Voltage: 120-240/208-480V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, super wide reflector
M1000c VAL-H1-1000EY1W-GIW	A high power CMH luminaire designed for veg applications.		1. Wattage: 1000W Input Voltage: 240-277V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 98%, wide reflector
M1000h Val-H1-1000Ey1W-GIA	A high voltage version of our M1000 model.		1. Wattage: 1000W Input Voltage: 240-277V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, Medium reflector
M1000 VAL-H1-1000CY1W-GI28	A high intensity HPS luminaire for greenhouse and warehouse cultivation environments.		1. Wattage: 1000W Input Voltage: 120-240V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, Medium reflector
M630 VAL-H1-630277Y1W-W27A	A double ended CMH luminaire for mother rooms, vegetative phase and supplemental illumination in light DLI greenhouse applications.		1. Wattage:630W Input Voltage:277V 2.Dimming type:600/750/ 825/ 1000 /1150/ and 0-10V 3. Die casting arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector
M315ch VAL-H1-315277XK5W-WVA	A high voltage version of our M315c model, suitable for mother room, veg, flower and low DLI greenhouse applications.	Les -	1. Wattage: 315W Input Voltage: 277V 2.Dimming type: 0-10V RJ14 dimming 3. Profile arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector
M315c VAL-H1-315CKW-WVG	A light weight and energy efficient CMH luminaire designed for use in mother rooms, veg, flower and low DLI greenhouse applica- tions.		1. Wattage: 315W Input Voltage: 120-240V 2.Dimming type: 0-10V RJ14 dimming 3. Profile arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector
M315c2 VAL-H2-315CLW-WNK	Two CMH lamps in a single luminaire designed for mother room, veg, bloom and low DLI greenhouse applications.		1.Wattage: 630W Input Voltage: 120-240V 2.Dimming type: 0-10V RJ14 dimming 3. Profile arm 4. Alanod (Germany) reflector, Efficiency 95%, medium reflector



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					Va	apor P	ressur	e Defic	cit (VP	D)					
15	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	59
16	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	61
17	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	63
18	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	64
19	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	66
20	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.5	68
21	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.6	70
22	0.0	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.7	72
23	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.3	1.4	1.5	1.7	1.8	73
24	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.5	1.6	1.8	1.9	75
25	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.1	77
26	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.9	2.0	2.2	79
27	0.0	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.1	2.3	81
28	0.0	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	82
29	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	84
30	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	86
31	0.0	0.2	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.0	2.3	2.5	2.7	2.9	88
32	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4	2.6	2.9	3.1	90
33	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3	91
34	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.5	93
35	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.7	95
°C	100%	95%	90%	85%	80%	75% Rel	70% lative Humidi	65% ity, % RH	60%	55%	50%	45%	40%	35%	°F



°C and °F are Leaf Surface Temperatures

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